INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/02945

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B23K26/38, B28D5/00, H01L21/301					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum de	ocumentation searched (classification system followed i	by classification symbols)			
Int.Cl ⁷ B23K26/38, B28D5/00, H01L21/301					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Jitsu Kokai	Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1994-2003 Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003				
Electronic d	ata base consulted during the international search (name	e of data base and, where practicable, sear	rch terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	·	Relevant to claim No.		
A	JP 4-111800 A (Nippon Sekiei 13 April, 1992 (13.04.92), Page 2, upper right column, l right column, line 7; Fig. 1 (Family: none)		1-10		
A	JP 10-305420 A (Nippon Glass 17 November, 1998 (17.11.98), Claims; detailed explanation Par. Nos. [0021] to [0024]; E (Family: none)	of the invention;	1-10		
X Furth	er documents are listed in the continuation of Box C.	See patent family annex.			
Special	categories of cited documents:	"T" later document published after the into	emational filing date or		
"A" document defining the general state of the art which is not priority date and not in conflict with the application but conflict with the a			lerlying the invention		
"E" carlier	"E" cartier document but published on or after the international filing "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive				
"I" document which may throw doubts on priority claim(s) or which is step when the document is taken alone					
cited to establish the publication date of another citation of other special reason (as specialed)					
"O" docum	ent referring to an oral disclosure, use, exhibition or other	combined with one or more other sucl combination being obvious to a perso	n skilled in the art		
"P" document published prior to the international filing date but later "&" document member of the same patent family					
Date of the actual completion of the international search Date of mailing of the international search			rch report		
] 13 ນ	June, 2003 (13.06.03)	01 July, 2003 (01.0	u (. U 3)		
Name and n	nailing address of the ISA/	Authorized officer	~		
Japanese Patent Office					
Facsimile No.		Telephone No.			

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/02945

].		
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	US 5211805 A (Rangaswamy, SRINIVASAN), 18 May, 1993 (18.05.93), Column 1, lines 6 to 10, 42 to 45; column 4, lines 60 to 68; column 8, line 59 to column 9, line 2; Figs. 1 to 4 & JP 6-198475 A	1-10	
A	Katsuyoshi MIDORIKAWA, "Femto-byo Laser no Genjo to Kako Oyo", Dai 45 Kai Laser Netsukako Kenkyukai Ronbunshu, 1998 December, ISBN 4-947684-21-6, 3.4 Local Machining by Nonlinear Effect, 5.4 Modifying Transparent Material	1-10	
E,A	WO 02/22301 Al (Hamamatsu Photonics Kabushiki Kaisha), 21 March, 2002 (21.03.02), Full text; all drawings (Family: none)	1-10	
A	Tomokazu SANO et al., "Pico-byo Pulse Laser ni yoru Silicon no Kako Tokusei Hyoka - Tan-Pulse Tanhacho Laser ni yoru Denshi Zairyo no Seimitsu Bisai Kako (Dai 1 ho)-", Japan Welding Society Zenkoku Taikai Koen Gaiyo, 13 March, 2000 (13.03. 00), 66th series, pages 72 to 73	1-10	
A	Kiyotaka MIURA, Kazuyuki HIRAO, "Femto-byo Laser Shosha ni yoru Glass Naibu eno Hikari Yuki Kozo Keisei", Dai 42 Kai Laser Netsukako Kenkyukai Ronbunshu, 1997 November, ISBN:4-947684-15-1, page 107, line 4 to page 109, line 5	1-10	
A	Ken'ichi HAYASHI, "Kotai Laser Kochoha ni yoru Glass Kiban no Naibu Marking", Dai 45 Kai Laser Netsukako Kenkyukai Ronbunshu, 1998 October, ISBN:4-947684-21-6	1-10	
		~	

Form PCT/ISA/210 (continuation of second sheet) (July 1998)